

Wataru Hakamata

List of Publications by Year in descending order

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papers

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471509

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times ranked

1269
citing authors

#	ARTICLE	IF	CITATIONS
1	[Review] Development of Fluorogenic Substrates and Inhibitors of Human Intracellular Glycosidases: Focusing on the Application of Endoplasmic Reticulum Glucosidase Inhibitors to Antiviral Agents. <i>Bulletin of Applied Glycoscience</i> , 2021, 11, 72-78.	0.0	0
2	Utilization of sucrose and analog disaccharides by human intestinal bifidobacteria and lactobacilli: Search of the bifidobacteria enzymes involved in the degradation of these disaccharides. <i>Microbiological Research</i> , 2020, 240, 126558.	5.3	5
3	Antioxidative Potency of Dolphin Serum Albumin Is Stronger Than That of Human Serum Albumin Irrespective of Substitution of 34Cysteine With Serine. <i>Frontiers in Physiology</i> , 2020, 11, 598451.	2.8	2
4	A novel Golgi mannosidase inhibitor: Molecular design, synthesis, enzyme inhibition, and inhibition of spheroid formation. <i>Bioorganic and Medicinal Chemistry</i> , 2020, 28, 115492.	3.0	10
5	Development of Specific Fluorogenic Substrates for Human β -N-Acetyl-D-hexosaminidase A for Cell-Based Assays. <i>Chemical and Pharmaceutical Bulletin</i> , 2020, 68, 526-533.	1.3	3
6	[Regular Paper] Separation of Cell-cell Communication Inhibitory Activity and Cytotoxicity of the Golgi Mannosidase Inhibitors by Structural Modifications. <i>Bulletin of Applied Glycoscience</i> , 2020, 10, 184-193.	0.0	0
7	Screening, Synthesis, and Evaluation of Novel Isoflavone Derivatives as Inhibitors of Human Golgi β -Galactosidase. <i>Chemical and Pharmaceutical Bulletin</i> , 2020, 68, 753-761.	1.3	6
8	Development of Fluorescent Substrate for Glycan Processing Glycosidase, and Screening of the Novel Glycosidase Inhibitor. <i>Trends in Glycoscience and Glycotechnology</i> , 2020, 32, E201-E204.	0.1	1
9	Development of Fluorescent Substrate for Glycan Processing Glycosidase, and Screening of the Novel Glycosidase Inhibitor. <i>Trends in Glycoscience and Glycotechnology</i> , 2020, 32, J177-J180.	0.1	0
10	Chitin Heterodisaccharide, Released from Chitin by Chitinase and Chitin Oligosaccharide Deacetylase, Enhances the Chitin-Metabolizing Ability of <i>Vibrio parahaemolyticus</i> . <i>Journal of Bacteriology</i> , 2019, 201, .	2.2	13
11	Development of Fluorogenic Substrates of β -L-Fucosidase Useful for Inhibitor Screening and Gene-expression Profiling. <i>ACS Medicinal Chemistry Letters</i> , 2019, 10, 1309-1313.	2.8	10
12	[Review] Development of Fluorogenic Substrates Based on Elaborate Molecular Design, and Screening of Novel Glycosidases Using Its Substrates. <i>Bulletin of Applied Glycoscience</i> , 2019, 9, 189-194.	0.0	0
13	Identification of Small-Molecule Inhibitors of Human Golgi Mannosidase <i>via</i> a Drug Repositioning Screen. <i>Chemical and Pharmaceutical Bulletin</i> , 2018, 66, 678-681.	1.3	9
14	Chemoenzymatic synthesis of sucronic acid using d -glucurono-6,3-lactone and sucrose as raw materials, and properties of the product. <i>Enzyme and Microbial Technology</i> , 2018, 110, 53-60.	3.2	3
15	Synthesis of Chitin Oligosaccharides Using Dried <i>Stenotrophomonas maltophilia</i> Cells Containing a Transglycosylation Reaction-Catalyzing β -N-Acetylhexosaminidase as a Whole-Cell Catalyst. <i>Applied Biochemistry and Biotechnology</i> , 2018, 184, 673-684.	2.9	8
16	Antiviral Activity and Mechanism of Action of Endoplasmic Reticulum Glucosidase Inhibitors: A Mini Review. <i>Trends in Glycoscience and Glycotechnology</i> , 2018, 30, J115-J121.	0.1	0
17	Antiviral Activity and Mechanism of Action of Endoplasmic Reticulum Glucosidase Inhibitors: A Mini Review. <i>Trends in Glycoscience and Glycotechnology</i> , 2018, 30, E139-E145.	0.1	3
18	Synthesis of All Stereoisomers of 1-(4-Methoxyphenyl)-2,3,4,9-tetrahydro-N-methyl-1H-pyrido[3,4-b]indole-3-carboxamide. <i>MolBank</i> , 2018, M973.	0.5	0

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19	Design and synthesis of cell-permeable fluorescent nitrilotriacetic acid derivatives. <i>Bioorganic and Medicinal Chemistry</i> , 2018, 26, 5494-5498.	3.0	2
20	Chitin oligosaccharide deacetylase from <i>Shewanella baltica</i> ATCC BAA-1091. <i>Bioscience, Biotechnology and Biochemistry</i> , 2017, 81, 547-550.	1.3	15
21	In vivo programming of endogenous antibodies via oral administration of adaptor ligands. <i>Bioorganic and Medicinal Chemistry</i> , 2017, 25, 5952-5961.	3.0	6
22	1,3-Butanediol Dibenzoate. <i>MolBank</i> , 2016, 2016, M905.	0.5	0
23	Enzymatic synthesis and the structure elucidation of novel trisaccharides comprised of D-galactose, N-acetyl-D-glucosamine, and D-fructose. <i>Journal of Carbohydrate Chemistry</i> , 2016, 35, 378-386.	1.1	4
24	Chemoenzymatic synthesis and properties of sucronamide. <i>Journal of Carbohydrate Chemistry</i> , 2016, 35, 435-444.	1.1	4
25	Enzymatic synthesis of novel oligosaccharides from N-acetylsucrosamine and melibiose using <i>Aspergillus niger</i> α -galactosidase, and properties of the products. <i>Bioscience, Biotechnology and Biochemistry</i> , 2016, 80, 1836-1842.	1.3	10
26	Discovery of human Golgi β -galactosidase with no identified glycosidase using a QMC substrate design platform for exo-glycosidase. <i>Bioorganic and Medicinal Chemistry</i> , 2016, 24, 1369-1375.	3.0	11
27	Chitin Oligosaccharide Deacetylase from <i>Shewanella woodyi</i> ATCC51908. <i>Journal of Applied Glycoscience</i> (1999), 2015, 62, 153-157.	0.7	8
28	A Simple Synthesis of Alliin and allo-Alliin: X-ray Diffraction Analysis and Determination of Their Absolute Configurations. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 10778-10784.	5.2	9
29	Structure-based analysis of domain function of chitin oligosaccharide deacetylase from <i>Vibrio parahaemolyticus</i> . <i>FEBS Letters</i> , 2015, 589, 145-151.	2.8	19
30	Identification of a novel glycan processing enzyme with exo-acting β -allosidase activity in the Golgi apparatus using a new platform for the synthesis of fluorescent substrates. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 73-79.	3.0	11
31	Multicolor Imaging of Endoplasmic Reticulum-Located Esterase As a Prodrug Activation Enzyme. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 321-325.	2.8	35
32	Facile and Stable Linkages through Tyrosine: Bioconjugation Strategies with the Tyrosine-Click Reaction. <i>Bioconjugate Chemistry</i> , 2013, 24, 520-532.	3.6	144
33	[Mini Review: 37th The Society of Young Carbohydrate Scientists] Detection of N-linked Oligosaccharide Processing Enzyme Activity at Cellular Level. <i>Bulletin of Applied Glycoscience</i> , 2013, 3, 195-196.	0.0	1
34	Formylbenzene Diazonium Hexafluorophosphate Reagent for Tyrosine-Selective Modification of Proteins and the Introduction of a Bioorthogonal Aldehyde. <i>Bioconjugate Chemistry</i> , 2012, 23, 2321-2328.	3.6	90
35	Solid-Phase Nucleophilic Fluorination. <i>Synthetic Communications</i> , 2012, 42, 1724-1730.	2.1	4
36	Virtual ligand screening of α -glucosidase: Identification of a novel potent noncarbohydrate mimetic inhibitor. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2012, 22, 62-64.	2.2	8

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37	Continuous Production of β -D-Fructofuranosyl-(2 \rightarrow 1)-2-acetamido-2-deoxy- α -D-glucopyranoside (N-Acetylsucrosamine) Using a Column Reactor Packed with β -Fructofuranosidase-containing Mycelia of <i>Aspergillus oryzae</i> Immobilized on a Porous Carrier. <i>Journal of Applied Glycoscience</i> (1999), 2012, 59, 153-160.	0.7	13
38	Design and synthesis of an ER-specific fluorescent probe based on carboxylesterase activity with quinone methide cleavage process. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 3206-3209.	2.2	34
39	[Review: Prize-awarded article] Study of Substrate Specificity for Glycosidase Inhibitor Design. <i>Bulletin of Applied Glycoscience</i> , 2011, 1, 51-57.	0.0	3
40	Design and Screening Strategies for α -Glucosidase Inhibitors Based on Enzymological Information. <i>Current Topics in Medicinal Chemistry</i> , 2009, 9, 3-12.	2.1	75
41	Structure of the ligand-binding domain of rat VDR in complex with the nonsecosteroidal vitamin D ₃ analogue YR301. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 970-973.	0.7	36
42	(2S,2 \rightarrow R)-Analogue of LG190178 is a major active isomer. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008, 18, 120-123.	2.2	25
43	Structural Basis for Recognition of High Mannose Type Glycoproteins by Mammalian Transport Lectin VIP36. <i>Journal of Biological Chemistry</i> , 2007, 282, 28246-28255.	3.4	53
44	Planar Catechin Analogues with Alkyl Side Chains: A Potent Antioxidant and an α -Glucosidase Inhibitor. <i>Journal of the American Chemical Society</i> , 2006, 128, 6524-6525.	13.7	73
45	Design and Synthesis of α -Glucosidase Inhibitor Having DNA Cleaving Activity. <i>Journal of Applied Glycoscience</i> (1999), 2006, 53, 255-260.	0.7	1
46	Aglycon specificity profiling of α -glucosidases using synthetic probes. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 1489-1492.	2.2	11
47	Recognition Properties of Processing α -Glucosidase I and α -Glucosidase II. <i>Journal of Carbohydrate Chemistry</i> , 2004, 23, 27-39.	1.1	14
48	A Planar Catechin Analogue Having a More Negative Oxidation Potential than (+)-Catechin as an Electron Transfer Antioxidant against a Peroxyl Radical. <i>Chemical Research in Toxicology</i> , 2004, 17, 26-31.	3.3	32
49	Convenient Preparation of Cyclic Acetals, Using Diols, TMS-Source, and a Catalytic Amount of TMSOTf. <i>ChemInform</i> , 2003, 34, no.	0.0	0
50	Convenient Preparation of Cyclic Acetals, Using Diols, TMS-Source, and a Catalytic Amount of TMSOTf. <i>Journal of Organic Chemistry</i> , 2003, 68, 3413-3415.	3.2	39
51	A Planar Catechin Analogue as a Promising Antioxidant with Reduced Prooxidant Activity. <i>Chemical Research in Toxicology</i> , 2003, 16, 81-86.	3.3	25
52	Glycosidase-catalyzed Deoxy Oligosaccharide Synthesis. Practical Synthesis of Monodeoxy Analogs of Ethyl β -Thioisomaltoside Using <i>Aspergillus niger</i> α -Glucosidase. <i>Bioscience, Biotechnology and Biochemistry</i> , 2003, 67, 1024-1029.	1.3	7
53	Glycon specificity profiling of α -glucosidases using monodeoxy and mono-O-methyl derivatives of p-nitrophenyl α -d-glucopyranoside. <i>Carbohydrate Research</i> , 2002, 337, 629-634.	2.3	33
54	Hydrolytic activity of α -galactosidases against deoxy derivatives of p-nitrophenyl α -d-galactopyranoside. <i>Carbohydrate Research</i> , 2000, 324, 107-115.	2.3	38

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55	Synthesis of Monomethyl Derivatives of <i>p</i> -Nitrophenyl α -D-Glucopyranosides, Galactopyranosides, and Mannopyranosides and their Hydrolytic Properties Against α -Glycosidases. <i>Journal of Carbohydrate Chemistry</i> , 2000, 19, 359-377.	1.1	20
56	Synthesis of <i>p</i> -Nitrophenyl 3- and 6-deoxy- α -D-glucopyranosides and Their Specificity to Rice α -Glucosidase. <i>Journal of Applied Glycoscience</i> (1999), 1999, 46, 459-463.	0.7	16
57	Hydrolytic Activity of α -Mannosidase against Deoxy Derivatives of <i>p</i> -Nitrophenyl α -D-Mannopyranoside. <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 2038-2042.	1.3	20